

$$y = \sqrt{nf(m)} \quad y = \sqrt{ny} \quad y^2 = ny$$

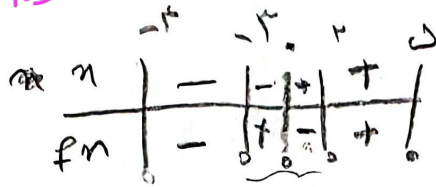
$$nf(m) \geq 0 \quad \text{1, 5}$$

~~-4 -6 0 2 6~~
~~-6 +6 -6 +6~~



$$-2 \leq n \leq 2 \quad \mathbb{Q} = [-2, 2] \cup [2, 2]$$

$$\frac{-n}{f(m)} \geq 0 \quad f(m) \neq 0$$



(2) ✓

$$(-2, 2), -\{0\}$$

$$\{-2, -1, 1\} = \overline{\mathbb{Q}}$$

$$\frac{f(2) - 2f(1)}{-f(1)} = \frac{2 - 4 + 1}{+2} \Rightarrow f(2) = \frac{1}{2} \quad f(m) = 1$$

(2) ✓

$$f(f(2)) + f(f(1)) = 1 \quad \text{1, 6}$$

$$f(n-1) = a(n-1) - b(n-1) + r \Rightarrow f(n-1) - f(n) = \frac{-ran + a + b}{n+1}$$

(2) ✓

$$-2a = 4 \quad a = -2$$

$$-2 - a = -1$$

$$\frac{2(2-4+1) + (1-2+1)}{(2-4+1)^2} \Rightarrow \frac{2+0}{1} \Rightarrow 2$$

(2) ✓

$$\frac{2f(2) - 2f(1)}{f(1)} = \frac{2(1) - 2(1)}{1+1} = \frac{2-2}{2} = 0$$

(2) ✓

$$\frac{f(1) - f(2)}{1-2} \Rightarrow \frac{1-2}{-1} = 1$$

(2) ✓

$$\frac{((\sqrt{x}-1)^2 + 1(\sqrt{x}-1) + 9)}{((\sqrt{x}-1)^2 + 1(\sqrt{x}-1) + 0)} \Rightarrow \frac{\cancel{1+1} - \cancel{1\sqrt{x}} + \cancel{1\sqrt{x}} - 1 + 9}{\cancel{1+1} - \cancel{1\sqrt{x}} + \cancel{1\sqrt{x}} - 1 + 0} \Rightarrow \frac{8}{8} = 1$$

$$\frac{1+1+9}{1+1+0} = \frac{11}{2}$$

Q ✓

$$n + \frac{1}{n} \times \frac{n+1}{n} \Rightarrow n + \frac{1}{n} + \frac{1}{n^2} - \left(n + \frac{1}{n} \right) = \frac{1}{n^2}$$

Q ✓